This listing of claims will replace all prior versions, and listings, of claims in the application.

## **Listing of Claims**

1. (currently amended) Apparatus for the printing and binding a perfect bound book, the latter comprising a book block having of a plurality of text pages with one edge of said book block constituting a spine, said book having a paper cover adhesively secured to said spine, said apparatus comprising a text page printer, an accumulator receiving said text pages printed by said text page printer and forming said book block, a cover printer, a cover transfer conveyor for receiving said cover printed by said cover printer and for conveying said cover to a binding station, a carriage movable along a workpath from a first station at which said carriage is in position to receive said text pages—constituting—said book block from said accumulator to an adhesive application station at which an adhesive is applied to the spine of said book block, and to said binding station, the later having a clamp for clamping said cover to said book block proximate said spine so as to effect the adhesive binding of said cover to said book block.

2. (currently amended) Apparatus as set forth in Claim 1 further comprising Apparatus for printing and binding books, each book comprising a book block having of a plurality of text pages with one edge of said book block constituting a spine, said book having a cover adhesively secured to said spine, said apparatus comprising a first text page printer, a second text page printer, a cover printer, a cover conveyor for conveying said cover to a binding station, a carriage movable along a

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workpath from a first station at which said carriage receives text pages for a first book

block for a first book from said first text page printer to an adhesive application station at

which an adhesive is applied to the spine of said first book block and to said binding

station, said cover printer printing a first cover for said first book, said cover conveyor

conveying said first cover to said binding station, the latter having a clamp for clamping

said first cover to said first book block proximate said spine so as to effect the adhesive

binding of said first cover to said first book block, -a-said second text page printer, said

second text-page printer being located along said workpath at a location separate from

said first text page printer, said second text page printer printing a second book block

for a second book, said cover printer printing a second cover for corresponding to said

second book, and said cover conveyor conveying said second cover to said binding

station after binding of said first book is completed at said binding station, after binding

of said first book, said carriage being movable to a second position along said workpath

for receiving said second book block printed by text pages from said second text page

printer for forming a book block for a second book and thence being movable along said

workpath to said adhesive application station for having said adhesive applied to said

spine of said second book block and thence to said binding station for being bound to

said second cover.

3. (currently amended) Apparatus for printing books and for perfect

binding said books, each said book to be printed and bound having a book block

comprising a plurality of text pages and a cover corresponding to said book being

printed, one edge of said book block constituting a spine, said apparatus comprising:

book to be printed and bound, said information including the size of the book and the

number of pages in said book block, information corresponding to the text pages to be

printed and to the cover to be printed, and information relating to excess margins of the

bound book, if any, that must be trimmed to form a book of predetermined finished size;

a text page printer;

a text page accumulator that which receives accumulates said text pages from

said text page printer so as to constitute said book block for said book being printed;

a cover printer;

said computer control system initiating printing of said text pages by said text

page printer for said first book and initiating printing of said a cover for said first book by

said cover printer, said accumulator accumulating said text pages for said first book so

as to form said book block for said first book;

a carriage movable along a workpath, said workpath having a book block

receiving station, an adhesive application station, a binding station, and a trimming

station therealong;

said carriage receiving said first book block, said carriage establishing a

reference position for said book block known to said computer control system-said

workpath having an adhesive application station, a binding station, and a trimming

station located therealong;

a cover transfer conveyor that which conveys said cover for said first book from

said cover printer to said binding station;

upon the completion of the printing of said first book block, said computer control

system initiating transfer of said first book block from said accumulator to said carriage

at said book block receiving station and initiating movement said carriage along said

workpath to said adhesive application station for the application of adhesive so as to be

disposed between the spine of said first book block and a center portion of its respective

cover upon binding of said book, said computer control system effecting the positioning

said first book block at said binding station with respect to its respective said cover

positioned at said binding station-such that said book block is substantially centered

with respect to said center portion of said cover and such that said book block is

substantially centered heightwise of said cover;

said binding station having a clamp engageable with said cover proximate said

spine for clamping said cover around said spine of said book;

said computer control system effecting clamping of said cover to said book block

so that said adhesive adheres said center portion of said cover to said spine of said

book block; and

after binding of said cover to said book block so as to form a perfect bound book,

said computer control system further initiating movement of said carriage along said

workpath for conveying said bound book to said trimming station, the latter said

computer control system effecting operation of a selectively actuable trimming blade at

said trimming station for trimming said excess margins, if any, of said bound book along

one or more edges thereof so as to form said a perfect bound book of a predetermined

finished size.

4. (currently amended) Apparatus for printing a plurality of books one

after the other, for perfect binding each of said books, and for trimming each of said

books to a predetermined finished size, each said book to be printed and bound having

a book block comprising a plurality of text pages and a cover corresponding to said

book being printed, one edge of book block constituting said spine of said book block,

said apparatus comprising:

a computer control system receiving processing information relating to each of

the books to be printed, bound, and trimmed, said information relating to a first book

including the finished size of the said a first book, the thickness of number of pages in

said first book, information corresponding to the text pages to be printed and to the

cover to be printed for said first book, and information regarding excess margins, if any,

that must be trimmed from said first book as initially printed and bound so as to be of a

predetermined finished size, said computer control system receiving processing

information relating to a second book including the finished size of said second book,

the thickness of number of pages in said second book, information corresponding to the

text pages to be printed and to the second cover to be printed for said second book, and

information regarding excess margins, if any, that must be trimmed from said second

book as initially printed and bound so as to be of a predetermined finished size;

a first text page printer which prints said text pages for said first book;

a cover printer;

a second text page printer which prints said text pages for said second book;

a first tray receiving said text pages printed by said first text page printer, said

text pages being accumulated on said first tray for constituting said a first book block;

a second tray receiving said text pages printed by said second text page printer,

said text pages being accumulated on said second tray for constituting said a second

book block;

a carriage movable along a workpath, the latter having a first station at which

said carriage receives said first book block, an adhesive application station at which an

adhesive is applied so as to be disposed between said spine of a book block carried by

said carriage and said its respective cover, a binding station at which said book block

carried by said carriage is bound to its respective cover positioned at said binding

station, the latter having a clamp for clamping a cover to a book block proximate the

spine of the book block, a trimming station at which excess margins, if any, of the book

bound at said binding station are trimmed from along one or more edges of said book,

and a second station at which said carriage receives said second book block;

a cover conveyor which that receives said cover printed by said cover printer and

which that conveys said cover to said binding station;

said computer control system initiating effecting printing of said text pages for

said first book block by said first text page printer and initiating printing of said a first

cover for said first book by said cover printer;

said computer control system initiating effecting printing of said text pages for

said second book block by said second text page printer;

upon the completion of the printing of said text pages for said first book block by

said first text page printer, said computer control system initiating effecting the transfer

of said first book block from said first tray into to said carriage;

said computer control system effecting the positioning of said first book block to a

known position within said carriage:

said computer control system effecting conveying of said first cover from said

cover printer to said binding station with a center portion of said first cover positioned at

said binding station so as to be in register with the spine of said first book block when

the latter is positioned at said binding station;

said computer control system effecting the printing of said a second cover for

said second book after said first cover has been printed;

said computer control system further initiating movement of said carriage along

said workpath to said adhesive application station where a suitable adhesive is applied

so as to be between said spine of said first book block and said first cover upon binding

said first book;

said computer control system effecting stopping said carriage at said binding

station such that with said spine of said first book block is substantially centered in

register with respect to said first cover, and such that said first cover is clamped to first

book block proximate the spine thereby to form a first bound book;

said computer control system further effecting the transport of said bound first

book to said trimming station, said first bound first book having said excess margins

known to said computer control system, the latter effecting operation of a selectively

actuable trimming blade at said trimming station for trimming said excess margins along

one or more edges of said first bound book thereby to form said first book of said

predetermined finished size;

upon the transport of said first bound book to said trimming station, said

computer control system effecting movement of said carriage to said a second position;

said computer control system initiating effecting the transfer of said second book

block from said second tray to said carriage;

said computer control system effecting the positioning of said second book block

in a known position with respect to said carriage;

said computer control system effecting the transfer of said second cover from

said cover printer to said binding station;

said computer control system effecting movement of said carriage along said

workpath from said second position to said adhesive application station where a

suitable adhesive is applied so as to be between said spine of said second book block

and said second cover upon binding of said second book;

said computer control system effecting stopping said carriage at said binding

station such that said spine of said second book block is in register substantially

centered with respect to said second cover and effecting clamping of said second cover

to said second book block proximate the spine thereof thereby to form a second bound

book; and

said computer control system further effecting the transport of said bound second

book to said trimming station, said second bound book having said excess margins

station blade for trimming said excess margins along one or more edges of said second

bound book thereby to form a second book of said finished predetermined size.

5. (currently amended) A book printing and binding apparatus, said

book having a plurality of text pages constituting a book block and a paper cover, said

apparatus comprising:

said book having a plurality of text pages constituting a book block and a cover;

a book printing station that prints said text pages;

a carriage that which receives the text pages so as to form said book block, said

carriage holding said book block in a known position;

an adhesive station operatively associated with the carriage to apply an adhesive

to one edge of the book block, said one edge constituting a spine;

a cover printing station that prints said a cover for said book being printed;

a binding station receiving said cover;

said binding station cooperating with said book block carried by said carriage

such that with said carriage stopped at said binding station such that said book block is

substantially centered with respect to said cover; and

said binding station further including a clamp engageable with said cover and

with said book block proximate said spine for clamping said cover to said book block

such that said adhesive binds said cover to said book block along said spine thereby to

form a bound book; and

a trimming station operatively associated with said carriage receiving said bound

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book and trimming said bound book to predetermined finished dimensions.

6. (previously presented) A book printing and binding apparatus

as set forth in Claim 5 further comprising a milling station operatively associated with

the carriage so as to roughen the spine of said book block prior to the adhesive station

applying the adhesive to said spine.

7. (previously presented) A book printing and binding apparatus

as set forth in Claim 5 further comprising:

a conveyor extending from said book printing station to said adhesive application

station and to said binding station, said carriage being operatively connected with the

conveyor to be conveyed by the conveyor from said book printing station to said

adhesive station and to said binding station.

8. (previously presented) A book printing and binding apparatus

as set forth in Claim 5 wherein said clamp at said binding station is movable between

first and second positions wherein the first position the clamp is clear of said cover, and

wherein the second position the clamp is in clamping engagement with said cover

proximate said spine so as to forcibly clamp said cover to said book block.

9. (currently amended) A book printing and binding apparatus as set

forth in Claim 5 wherein said cover printing station includes a color cover printer that

prints a color cover for the book and ejects-said cover, said cover printing station further

including a cover transfer mechanism extending between said cover printer and the

binding station, the cover transfer mechanism being operable to receive the printed

cover ejected from the cover printer and to transfer the cover to the binding station.

10. (previously presented) A book printing and binding apparatus as set forth in Claim 9 wherein said cover transfer mechanism positions said cover at said

binding station with a central portion of said cover in register with the spine of a book

block carried by said carriage to be bound to said cover.

11. (currently amended) A book printing and binding apparatus as set

forth in Claim 5 wherein said further comprising a trimming station having has a nest

that receives and holds said bound book, said book being delivered to said nest by said

carriage such that the bound book is in a known position, said trimming station having a

shear blade operable to shear said bound book, the nest and said shear blade being

movable relative to one another enabling said shear blade to shear predetermined

amounts of the book block and cover along one or more edges thereof so as to form a

finished book of predetermined dimensions.

12. (previously presented) A book printing and binding apparatus as set

forth in Claim 11 wherein said nest is rotatable relative to said shear blade to present

more than one edge of both the book block and cover to said shear blade for shearing.

13. (previously presented) A book printing and binding apparatus as set

forth in Claim 5 wherein said carriage has a bottom opening such that a book block

carried vertically by said carriage has its spine exposed from below such that as the

carriage carries the book block spine over the adhesive station adhesive may be

applied to said spine.

14. (previously presented) A book printing and binding apparatus as set

forth in Claim 13 wherein with said spine exposed through said bottom opening in said

carriage, with the book block positioned at said binding station, said spine is in position

to be adhesively bound to said center portion of said cover positioned at said binding

station.

15. (currently amended) A book printing and binding apparatus as set

forth in claim 5, further comprising:

A book printing and binding apparatus comprising:

a first text page printing station that prints a plurality of text pages to form a book

block for a first book;

a carriage holding said book block for said first book;

an adhesive station operatively associated with the carriage to apply an adhesive

to one edge of the book block for said first book, said one edge of said book block

constituting a spine;

a cover printing station that prints a cover for said first book;

a binding station receiving said cover for said first book, said binding station

cooperating with said book block carried by said carriage so as to bind said book block

and said cover so as to form said first book;

a second book text page printing station that prints a plurality of text pages for a

second book block for of a second book;

said carriage being operatively associated with to said second book text page

printing station to receive the text pages so as to form a said second book block for a

second-book, said carriage holding said second book block with one edge of this last-

said book block constituting its spine;

said carriage conveying said second book block to said adhesive application station for having adhesive applied to its spine, and thence to said binding station;

said cover printing station printing a second cover for said second book;

said binding station receiving said second cover for said second book; and

said carriage positioning said second book block at said binding station with its

spine in position to be bound to said second cover;

said binding station clamp being operable to bind clamp said second cover to said second book block thereby to form said second book.

16. (currently amended) A book printing and binding apparatus as set

forth in Claim 15 wherein said second book text page printing station is separate from

the first book text page printing station.

17. (currently amended) A book printing and binding apparatus as set

forth in Claim 16 wherein said carriage is movable along a workpath along which is

included said adhesive application station and said binding station, wherein said the first

book text page printing station and the said second book printing station are positioned

on opposite ends of said workpath with respect to said adhesive station and said

binding station therebetween.

18. (currently amended) A book printing and binding apparatus, said

book having a plurality of text pages constituting a book block and a cover, said

apparatus comprising:

a printing station that prints said text pages;

a carriage that receives said book block;

a cover printing station that prints a cover for said book being printed;

a binding station receiving said cover;

said binding station cooperating with said carriage such that with said carriage stopped at said binding station such that said book block is in register with said cover;

said binding station further including a clamp engageable with said cover proximate said spine for clamping said cover to said book block such that said adhesive binds said cover to said book block along said spine thereby to form a bound book; and

A book printing and binding apparatus as set forth in Claim 5 further comprising a first transfer mechanism positioned between said the first book printing station and the carriage to receive said text pages printed by said first printing station and to form said first book block for said first book, said transfer mechanism being operable to transfer said book block first to said carriage.

- 19. (currently amended) A book printing and binding apparatus as set forth in Claim 18 wherein said first-transfer mechanism has a tray that receives said text pages from said first book printing station and arranges said text pages so as to form said first book block.
- 20. (currently amended) A book printing and binding apparatus as set forth in Claim 19 wherein with said carriage in position to receive said first book block, said tray being movable from a receiving position in which is receives said pages from

said first printing station and to a delivery position in which said tray delivers said first

book block is delivered to said carriage.

21. (previously presented) A book printing and binding apparatus as set

forth in Claim 20 further having a vibrating mechanism mounted on said the tray for

vibrating the tray and said text pages received thereon so as to arrange said pages into

a book block.

22. (previously presented) A book printing and binding apparatus as set

forth in Claim 20 further comprising a clamp mechanism on the tray movable between

open and a closed position where in the closed position the clamp holds the book block

on the tray and where in the open position the clamp releases the book block to be

deposited in the carriage.

23. (currently amended) A book printing and binding apparatus as set

forth in Claim 20 wherein said vibrating mechanism is 5, further comprising a jogging

station operatively associated with the carriage said tray such that the pages comprising

the book block are vibrated so as to align and with the a book block held in the carriage,

the jogging station having a vibrator which vibrates the book block and thereby aligns

the pages of the book block.

24. (currently amended) A book printing and binding apparatus as set

forth in Claim 23 wherein said tray vibrator is supported in an angled orientation such

that the vibrating mechanism vibrator exerts both horizontal and vertical vibrating forces

on the book block held so as to aid in forming said book block.

25. (canceled).

26. (currently amended) Apparatus for the on demand printing and

binding a perfect bound book, the latter comprising a book block having of a plurality of

text pages with one edge of said book block constituting a spine, said book having a

cover adhesively secured to said spine, said apparatus comprising:

a first text page printer for printing said text pages constituting a first book block

of a first book to be printed on demand;

a cover printer for printing a cover corresponding to said first book;

an accumulator including a tray for receiving said text pages printed by said first

text page printer and for accumulating said text pages so as to form said first book

block;

a cover transfer conveyor for receiving a cover printed by said cover printer for

said first book and for conveying said cover to a binding station;

a carriage movable along a workpath from a first station at which said carriage is

in position to receive said first book block from said accumulator to an adhesive

application station at which adhesive is applied so as to be disposed between to the

spine of said first book block and its respective said cover upon binding of said

respective cover to said first book block;

said binding station having a clamp for clamping said cover to said book block

proximate said spine so as to effect the adhesive binding of said cover to said book

block;

Apparatus as set forth in Claim 25 further comprising

a second text page printer for printing the text pages of a second book to be printed and bound on demand, said second text page printer being located along said

workpath at a location separate from said first text page printer;

said apparatus further having a second accumulator having a tray means for

receiving said text pages printed by said second text page printer and for accumulating

said text pages to form a second book block for said second book,

said cover printer printing a cover corresponding to said second book;

said cover transfer conveyor conveying said second cover to said binding station

after binding of said first book is completed at said binding station; and

said carriage being movable to a position along said workpath for receiving said

second book block from said second accumulator receiving means and said carriage

thence being movable along said workpath to said adhesive application station and

thence to said binding station for being bound to said second cover.

27. (currently amended) Apparatus as set forth in Claim <u>26</u> <del>25</del> further

comprising a trimming station, the latter having a trimming blade for trimming said

bound-book to a predetermined finished size.

28. (canceled) Apparatus as set forth in Claim 26 further comprising

a trimming station, the latter having a trimming blade for trimming said bound book to a

predetermined finished size.

29. (currently amended) Apparatus as set forth in Claim <del>27</del> <u>26</u> wherein

said carriage conveys said book block with said cover bound thereto from said binding

station to said trimming station.

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30. (currently amended) Apparatus as set forth in Claim 29 further

comprising a computer control system receiving processing information relating to each

of said books to be printed and bound including the size of the book, the number of

pages in the book, and the excess margins if any, of the bound book that must be

trimmed to form a book of said predetermined finished size, said computer control

system effecting operation of said first text page printer and of said cover printer to print

the text pages and the cover of a said first book to be printed on demand, effecting

operation of said first receiving means so as to transfer the text pages constituting said

first book block for said first book to said carriage, effecting the transfer of the cover for

such first book to the binding station, and said computer control system effecting

movement of the carriage to said adhesive application, binding, and trimming stations.

31. (currently amended) Apparatus as set forth in Claim 30 wherein said

computer control system effecting the printing of the text pages of a second book on

said second text page printer while a said first book is being printed and bound, said

computer control system further effecting said cover printer to print a second cover for

said second book after the cover for the first book has been transferred to said binding

station, and said computer control system further effecting the transfer of said second

book block from said second receiving means to said carriage after the first book has

been transferred to said trimming station.

32. (previously presented) Apparatus as set forth in Claim 31 wherein

after the book block for said second book has been transferred to said carriage, said

computer control system effecting movement of said carriage to said adhesive

application station for applying adhesive so as to be disposed between said spine of

said second book block and its respective cover upon binding, said computer control

system further effecting movement of said carriage to said binding station for binding of

the cover for said second book to said second book block, and said computer control

system further effecting movement of said carriage to said trimming station for trimming

of said second book to said predetermined finished dimensions.

33. (previously presented) Apparatus as set forth in Claim 32 wherein said

first and second books may be of different sizes and thickness.

34. (currently amended) A method of on demand manufacturing a

plurality of perfect bound books wherein each book to be manufactured may be, within a

limited range, of the same or of a different size and may have, within a limited range,

the same or a different number of pages, each book comprising a plurality of text pages

constituting a book block and a paper cover wrapped around the front, back and one

edge of said book block, said one edge constituting a spine, said method comprising the

steps of:

commanding a first text page printer to print the text pages constituting a first

book block for a first book to be printed;

accumulating said text pages to form said first book block for said first book;

transferring said book block for said first book to a carriage;

moving said first book block carriage along a workpath, the later having an

adhesive application station, a binding station, and a trimming station therealong;

printing a cover for said first book;

conveying said cover for said first book to said binding station and positioning

said cover at said binding station for being bound to said spine of said first book block;

at said adhesive application station, applying an adhesive so as to be disposed

between said spine of said first book block and its respective cover upon binding of the

book;

printing a cover for said first book;

conveying said cover for said first book to said binding station and positioning

said cover at said binding station so as to be substantially in register with said spine of

said first book block when the latter is positioned at said binding station;

moving said first book block earriage to said binding station and stopping said

first book block said carriage at said binding station with the spine of said first book

block for said first-book substantially in register with said first cover;

at said binding station, clamping said first cover to said first book block for said

first book proximate said spine so as to adhesively bind said first cover to said first book

block thereby forming a bound first book;

moving said bound first book from said binding station to said trimming station

and transferring said bound first book to said trimming station; and

determining the amount of any excess margins along one or more edges of said

bound first book; and

effecting operation of a trimming blade at said trimming station so as to trim

trimming any said excess margins from said bound first book thereby to form a first

book of a predetermined finished size.

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commanding a second printer to print the text pages constituting a book block for a second book to be printed where the size and the number of pages of said second book may vary widely from said first book within said limited range;

accumulating said text pages to form said second book block for said second book;

upon transfer of said bound first book from said carriage to said trimming station, moving said carriage to a position for receiving said second book block from said second printer along said workpath to said adhesive application station and thence to said binding station for said second book;

printing a cover for said second book;

positioning said second cover so as to be bound to said spine of said second book block;

moving said carriage with said book block for said second book along said workpath to said adhesive application for having adhesive applied so as to be disposed between said spine and said cover of said second book upon binding;

printing a cover for said second book;

conveying said cover for said second book to said binding station and positioning said cover for said second book so as to be substantially in register with said spine of said book block for said second book when the latter is positioned at said binding station;

moving said carriage to said binding station and stopping said carriage at said binding station with the spine of said book block for said second book substantially in register with said cover for said second book;

clamping said <u>second</u> cover to said <u>second</u> book block for <u>said second book</u> proximate said spine so as to adhesively bind said <u>second</u> cover to said book block thereby forming a bound second book;

moving said bound second book from said binding station to said trimming station and transferring said bound second book to said trimming station; and

determining the amount of any excess margins along one or more edges of said bound second book; and

effecting operation of said trimming blade at said trimming station so as to trim said trimming any excess margins from said bound second book thereby to form a second book of a predetermined finished size.

- 36. (currently amended) A method of printing a book block having a plurality of text pages comprising the steps of:
  - a. printing said text pages on a printer;
  - b. discharging said pages from said printer;
  - c. accumulating said pages as they are discharged from said printer
     so as to form a book block on a tray in a page receiving position;
     and
  - d. upon the completion of a predetermined number of pages, effecting

    the transfer of said book block to a movement of said tray from

said receiving position to a discharge position in which said pages are discharged from said tray into a said carriage.

- 37. The method of Claim 36 wherein said pages (currently amended) are accumulated on a tray as they are discharged from said printer, said method further comprising a step of holding said pages relative to said tray after said predetermined number of pages have been accumulated on said tray and holding said pages relative to said tray as the latter is moved from a its receiving position in which is receives said pages from said printer so as to form said book block to a its discharge position, and then releasing said pages book block so as to be such that said pages are discharged by gravity into said carriage.
- 38. (currently amended) The method of Claim 36 further comprising a step of jogging said pages as they are supported on said tray thereby to substantially align said pages comprising said book block relative to one another.
- 39. (currently amended) The method of Claim 38 further employing a cover printer for printing a cover for the book to be bound, said cover having a center portion, said method further comprising the additional steps of;

printing a cover on said cover printer corresponding to the book to be bound; and positioning said cover relative to the book block at a binding station such that upon binding of said cover with said book block, the spine of said book block is substantially adhered to the center portion of said cover.

40. (currently amended) A method of manufacturing a plurality of perfect bound books wherein each book manufactured may, within a limited range, be of a different size and have a varying different number of pages, each book comprising

a plurality of text pages constituting a book block and a paper-cover wrapped around

the front, back and one edge of said book block, said one edge constituting a spine,

said method comprising the steps of:

commanding the printing of text pages constituting a book block for a first book to

be printed;

transferring said book block for said first book to a carriage;

moving said carriage along a workpath, the later having an adhesive application

station, a binding station, and a trimming station therealong;

at said adhesive application station, applying an adhesive to said spine of said

book block;

printing a cover for said first book;

conveying said cover for said first book to said binding station and positioning

said cover at said binding station so as to be substantially in register with said spine of

said first book block when the latter is positioned at said binding station;

moving said carriage to said binding station and stopping said carriage at said

binding station with the spine of said book block for said first book substantially centered

with respect to said cover;

clamping said cover to said book block for said first book proximate said spine so

as to adhesively bind said cover to said book block thereby forming a bound first book;

moving said bound first book from said binding station to said trimming station

and transferring said first bound book to said trimming station;

effecting operation of a trimming blade at said trimming station so as to trim said

any excess margins from said first bound book thereby to form a first book of a

predetermined finished size.

41. (currently amended) The method of Claim 40 further comprising the

steps of:

commanding the printing of text pages constituting a book block for a second

book to be printed where the size and the number of pages of said second book may

vary widely-from said first book;

transferring said book block for said second book to said carriage;

moving said carriage along said workpath to a position for receiving said book

block for said second book;

transferring said book block for said second book to said carriage;

moving said carriage with said book block for said second book along said

workpath to said adhesive application for having adhesive applied to the spine of said

book block;

printing a cover for said second book;

conveying said cover for said second book from to said binding station and

positioning said cover for said second book so as to be substantially in register with said

spine of said book block for said second book when the latter is positioned at said

binding station;

moving said carriage to said binding station and stopping said carriage at said

binding station with the spine of said book block for said second book substantially

clamping said cover to said book block for said second book proximate said spine so as to adhesively bind said cover to said book block thereby forming a second

bound book;

moving said second bound book from said binding station to said trimming

station and transferring said second bound book to said trimming station; and

effecting operation of a trimming blade at said trimming station so as to trim said

any excess margins from said second bound book thereby to form a second book of a

predetermined finished size.

42. (currently amended) Apparatus for the printing and binding a perfect

bound book, the latter comprising a book block having of a plurality of text pages with

one edge of said book block constituting a spine, said book having a paper cover

adhesively secured to said spine, said apparatus comprising a text page printer, a cover

printer, a cover transfer conveyor for receiving said cover printed by said cover printer

and for conveying said cover to a binding station, a carriage movable along a workpath

from a first station at which said carriage is in position to receive said text pages

constituting said book block to an adhesive application station at which an adhesive is

applied to the spine of said book block, and to said binding station, the later having a

clamp for clamping said cover to said book block proximate said spine so as to effect

the adhesive binding of said cover to said book block so as to form a bound book, and a

trimming station receiving said bound book from said binding station and trimming said

bound book to predetermined dimensions.

Appln No. 10/020,266

Amendment Dated February 14, 2005

Reply to Office Action of October 28, 2004

43. (currently amended) Apparatus as set forth in Claim 1 further

comprising a second text page printer for printing the text pages of a second book, aid

said second text page printer being located along said workpath at a location separate

from said first text page printer, an accumulator receiving said text pages printed by said

second text page printer and forming a book block for said second book, said cover

printer printing a cover corresponding to said second book and said cover conveyor

conveying said second cover to said binding station after binding of said first book is

completed at said binding station, said carriage being movable to a position along said

workpath for receiving said text-pages from-said second printer for forming a book block

for a said second book and thence being movable along said workpath to said adhesive

application station for having said adhesive applied to said spine of said second book

block and thence to said binding station for being bound to said second cover.